DVD VIDEO PLAYER

DVP 640K

PHILIPS

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General Information

Environmental Information

All unnecessary packaging has been omitted. The packaging has been made easy to separate into three materials: cardboard (box), polystyrene foam (buffer) and polyethylene (bags, protective foam sheet).

Your DVD player consists of materials which can be recycled and reused if disassembled by a specialised company. Please observe the local regulations regarding the disposal of packaging materials, exhausted batteries and old equipment.

Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories.

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'CONSUMERS SHOULD NOTE THAT NOT ALL HIGH DEFINITION TELEVISION SETS ARE FULLY COMPATIBLE WITH THIS PRODUCT AND MAY CAUSE ARTIFACTS TO BE DISPLAYED IN THE PICTURE. IN CASE OF 525 OR 625 PROGRESSIVE SCAN PICTURE PROBLEMS, IT IS RECOMMENDED THAT THE USER SWITCH THE CONNECTION TO THE 'STANDARD DEFINITION' OUTPUT. IF THERE ARE QUESTIONS REGARDING OUR TV SET COMPATIBILITY WITH THIS MODEL 525p AND 625p DVD PLAYER, PLEASE CONTACT OUR CUSTOMER SERVICE CENTER.'

Laser safety

This unit employs a laser. Due to possible eye injury, only a qualified service person should remove the cover or attempt to service this device.

NOTE:
PICTURES SHOWN MAYBE DIFFERENT BETWEEN COUNTRIES.

CAUTION
(WARNING LOCATION: ON THE BACKPLATE OF THE SET)

NEVER MAKE OR CHANGE CONNECTIONS WITH THE POWER SWITCHED ON.

Due to the inconsistency of disc formats provided by various disc manufacturers, your DVD system may require a playability enhancement or upgrade. As DVD technology advances, these enhancements will become common and will be easy to complete.
Go to www.p4c.philips.com for software upgrade.

The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on apparatus.

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Important Note:
Due to the numerous versions of new CD-Audio copy protection or enhanced CD-Audio protection recently available on certain discs, Philips is unable to guarantee that this DVD Player is fully compatible with such new discs. Should you have difficulty playing any such CD-Audio discs, kindly refer them to your CD-Audio disc retailer.

For Customer Use:

Read carefully the information located at the bottom of your DVD VIDEO player and enter below the Serial No. Retain this information for future reference.

Model No. DVD VIDEO 640K
Serial No. _____

LASER	
Type	Semiconductor laser GaAlAs
Wave length	650 nm (DVD) 780 nm (VCD/CD)
Output Power	7 mW (DVD) 10 mW (VCD/CD)
Beam divergence	60 degree

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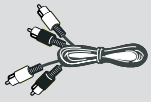
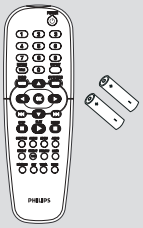
Supplied accessories

Video cable (yellow)

Audio cable (white, red)

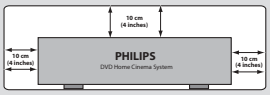


Remote Control and two AA batteries

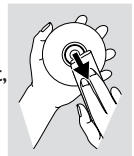


Care and safety information

- **Power consumption**
  – Check that the operating voltage indicated on the typeplate (or beside the voltage selector) is identical to the voltage of your local power supply. If not, please consult your dealer.
  – When the system is switched to Standby mode, it is still consuming power. To disconnect the system from the power supply completely, remove the AC power plug from the wall jack.
- **Avoid high temperatures, moisture, water and dust**
  – Do not expose the player, batteries or discs to humidity, rain, sand or excessive heat (caused by heating equipment or direct sunlight.)
- **Avoid condensation problem**
  – The lens may cloud over when the player is suddenly moved from cold to warm surroundings, making it impossible to play a disc. Leave the player in the warm environment until the moisture evaporates.
- **Do not block the vents**
  – Do not operate the DVD Player in an enclosed cabinet, allow about 10 cm (4 inches) of free space all around the player for adequate ventilation.



- **Care of the cabinet**
  – Use a soft cloth slightly moistened with a mild detergent solution. Do not use a solution containing alcohol, spirits, ammonia or abrasives.
- **Finding a suitable location**
  – Place the player on a flat, hard, and stable surface.
- **Disc handling**



  – To clean a CD, wipe it in a straight line from the center towards the edge using a soft, lint-free cloth. A cleaning agent may damage the disc!
  – Write only on the printed side of a CDR(W) and only with a soft felt-tipped pen.
  – Handle the disc by its edge, do not touch the surface.

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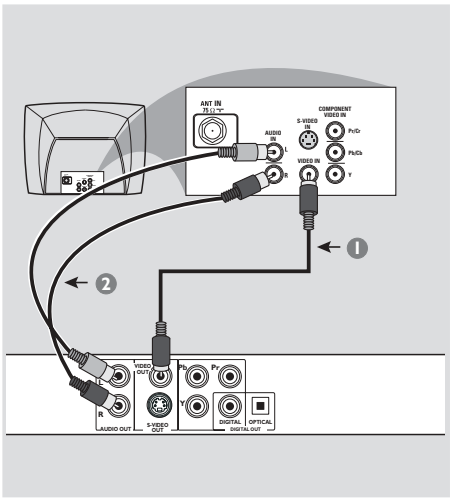
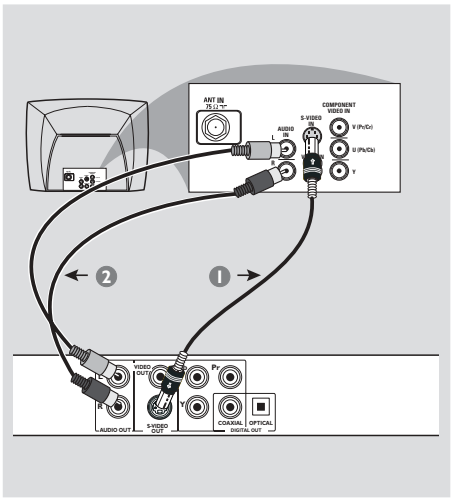
Connections

Connecting TV





IMPORTANT!
– You only need to make one video connection from the following options, depending on the capabilities of your TV system.
– Connect the DVD system directly to the TV.

Using Composite Video jacks (CVBS)

1. Use the composite video cable (yellow) to connect the DVD Player's CVBS (VIDEO) jack to the video input jack (or labeled as A/V In, Video In, Composite or Baseband) on the TV *(cable supplied)*.
2. To hear the sound of this DVD Player through your TV, use the audio cables (white/red) to connect AUDIO OUT (L/R) jacks of the DVD Player to the corresponding AUDIO IN jacks on the TV *(cable supplied)*.

IMPORTANT!
– S-Video connection provides better picture quality. This option must be available on your TV.

Using S-Video jack

1. Use the S-video cable to connect the DVD system's **S-VIDEO OUT** jack to the S-Video input jack (or labeled as Y/C or S-VHS) on the TV *(cable not supplied)*.
2. To hear the sound of this DVD Player through your TV, use the audio cables (white/red) to connect AUDIO OUT (L/R) jacks of the DVD Player to the corresponding AUDIO IN jacks on the TV *(cable supplied)*.

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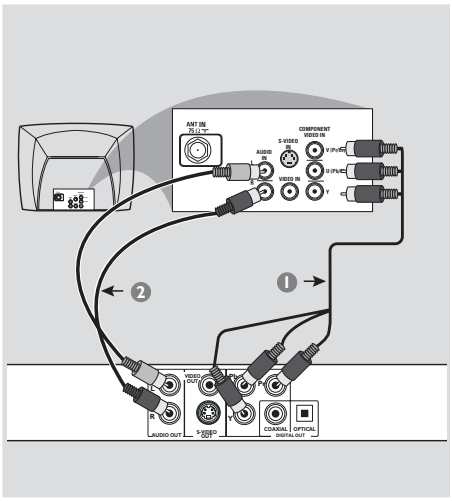

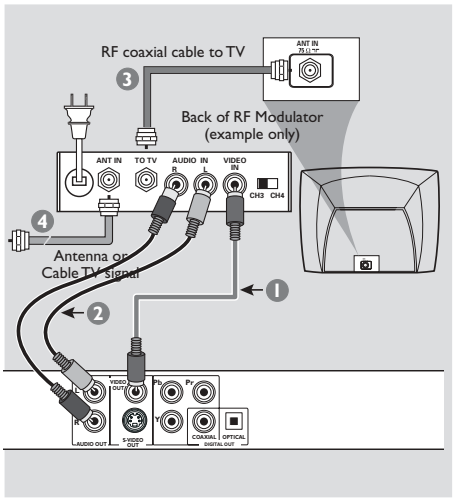

IMPORTANT!
– Component Video connection provides higher picture quality. This option must be available on your TV.
– The progressive scan video quality is only possible through Component Video (Pr Pb Y) output.

Using Component Video jacks (Y Pb Pr)

1. Use the component video cables (red/blue/green) to connect the DVD system's **Pr Pb Y** jacks to the corresponding Component video input jacks (or labeled as Pr/Cr Pb/Cb Y or YUV) on the TV *(cable not supplied)*.
2. To hear the sound of this DVD Player through your TV, use the audio cables (white/red) to connect AUDIO OUT (L/R) jacks of the DVD Player to the corresponding AUDIO IN jacks on the TV *(cable supplied)*.

IMPORTANT!
– If your TV only has a single Antenna In jack (or labeled as 75 ohm or RF In,) you will need an RF modulator in order to view the DVD playback on the TV. See your electronics retailer or contact Philips for details on RF modulator availability and operations.

Using an accessory RF modulator

1. Use the composite video cable (yellow) to connect the DVD Player's **CVBS** jack to the video input jack on the RF modulator.
2. Use the RF coaxial cable (not supplied) to connect the RF modulator to your TV's RF jack.

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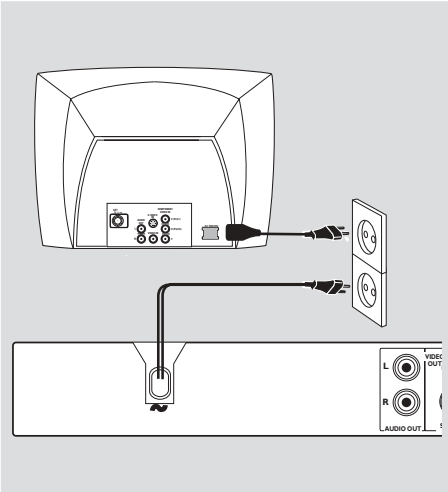
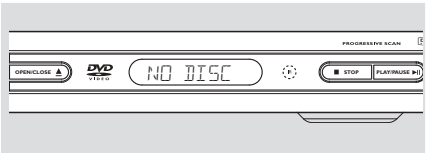
Connections

Connecting the power cord



After everything is connected properly, plug in the AC power cord to the power outlet.
Never make or change any connections with the power switched on.

When no disc is loaded, p**ress STANDBY ON on the DVD Player front panel,**
"NO DISC" may appear on the display panel.



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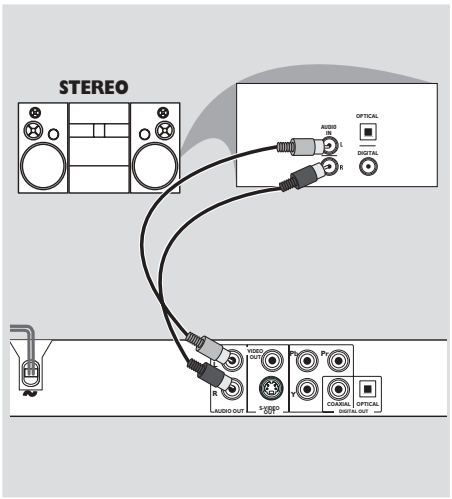
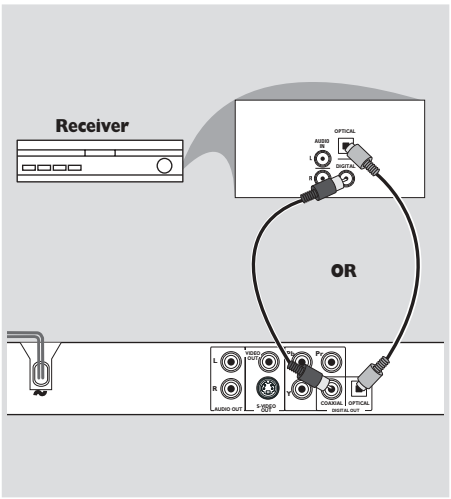
Optional: Connecting to an Audio System



Stereo system has Dolby Pro Logic or Right / Left Audio In jack

1. Select one of the video connections (CVBS VIDEO IN, S-VIDEO IN, SCART or COMPONENT VIDEO IN) depending on the options available on your TV.
2. Use the audio cables (white/red) to connect **AUDIO OUT (L/R)** jacks of the DVD Player to the corresponding AUDIO IN jacks on the stereo system *(cable supplied)*.
3. Set the DVD Player's Downmix to 'STEREO' for simple Right/Left AUDIO IN jack or 'LT/RT' for Dolby Pro Logic decoding *(see page 26 "Downmix")*.

Optional: Connecting Digital AV Receiver



Receiver has a PCM, Dolby Digital, or MPEG2 decoder

1. Select one of the video connections (CVBS VIDEO IN, S-VIDEO IN, SCART or COMPONENT VIDEO IN) depending on the options available on your TV.
2. Connect the COAXIAL or OPTICAL jack of the DVD Player to the corresponding Digital Audio In jack on your Receiver *(cable not supplied)*.
3. Set the DVD Player's Digital Output to PCM-ONLY or ALL depending on the capabilities of your Receiver *(see page 26 "Digital Output")*.

Helpful Hint:
– *If the audio format of the Digital Output does not match the capabilities of your receiver, the receiver will produce a strong, distorted sound or no sound at all.*

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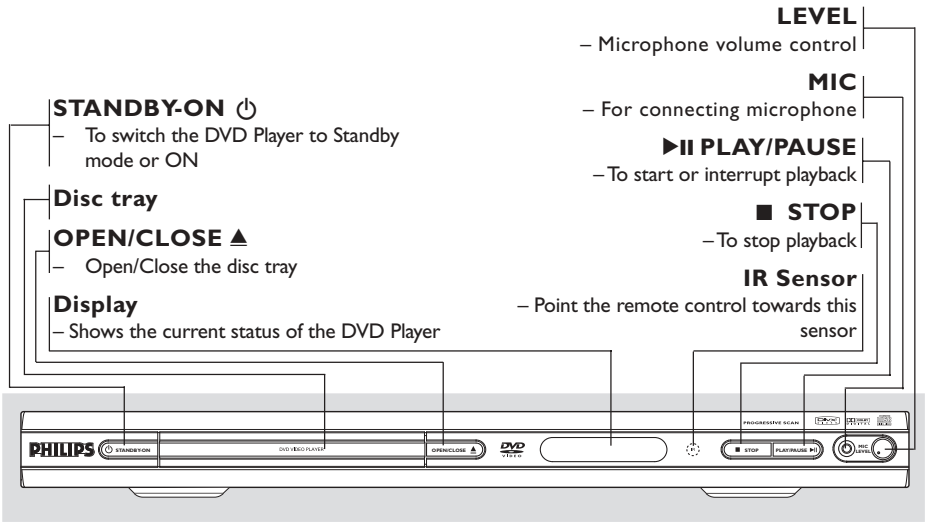
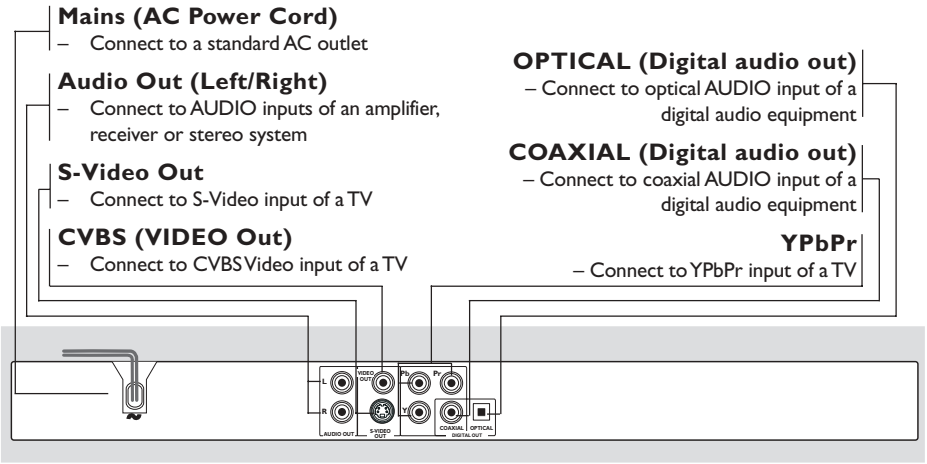
Functional Overview

Front and Rear Panels




Mains (AC Power Cord)
– Connect to a standard AC outlet
Audio Out (Left/Right)
– Connect to AUDIO inputs of an amplifier, receiver or stereo system
S-Video Out
– Connect to S-Video input of a TV
CVBS (VIDEO Out)
– Connect to CVBS Video input of a TV
OPTICAL (Digital audio out)
– Connect to optical AUDIO input of a digital audio equipment
COAXIAL (Digital audio out)
– Connect to coaxial AUDIO input of a digital audio equipment
YPbPr
– Connect to YPbPr input of a TV

Caution: Do not touch the inner pins of the jacks on the rear panel. Electrostatic discharge may cause permanent damage to the unit.

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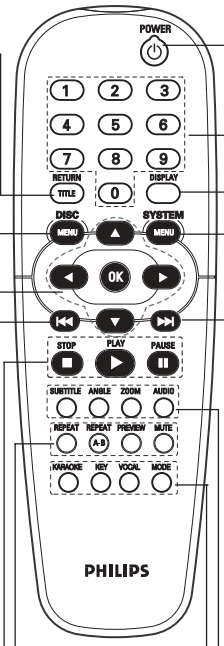
Remote Control



RETURN / TITLE
– To go back to previous menu / show title menu

DISC MENU
– Enters the disc contents menu
– Switches on or off the playback control mode (for VCD version 2.0 only)

◄ ► ▲ ▼
– Selects an item in the menu/ fast forward/backward, slow forward/ backward

OK
– Acknowledge menu selection

|◄◄
– To search or select previous chapter or track

STOP (■)
– To stop playback

PLAY (►)
– To start playback

PAUSE (II)
– To pause playback temporarily / frame-by-frame playback

REPEAT
– Selects various repeat modes

REPEAT (A-B)
– Repeats playback a specific section on a disc

PREVIEW
– To preview the content of a track or whole disc

MUTE
– Disables or enables sound output

Helpful Hint:
Press "STOP" for about 2 seconds to OPEN or CLOSE disc tray.

POWER ⏻
– To switch the DVD player to standby mode or ON

0-9 numerical key pad
– Selects numbered items in a menu

DISPLAY
– Displays information on TV screen during playback

SYSTEM MENU
– Access or exit DVD Player's system menu

►►|
– To search or select next chapter or track

SUBTITLE
– To access subtitle language system menu

ANGLE
– Selects a DVD camera angle

ZOOM
– Enlarge a picture on the TV screen

AUDIO
– To access audio language system menu

KARAOKE
– Display karaoke menu to set MIC on or off

KEY
– Display karaoke menu to set key control

VOCAL
– Choose audio channels or karaoke methods

MODE
– Display karaoke menu

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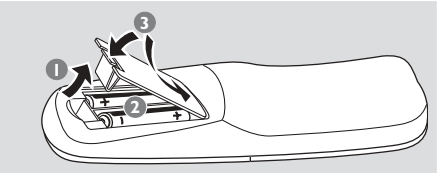
Getting Started

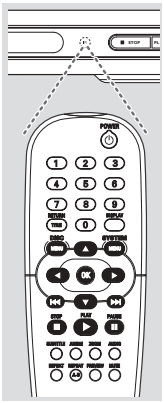
Step 1: Inserting batteries into the Remote Control



1. Open the battery compartment.
2. Insert two batteries type R06 or AA, following the indications (+ −) inside the compartment.
3. Close the cover.

Using the Remote Control to operate the Player

1. Aim the Remote Control directly at the remote sensor (iR) on the front panel.
2. Do not put any objects between the Remote Control and the DVD Player while operating the DVD Player.



CAUTION!
– Remove batteries if they are exhausted or if the Remote Control is not being used for a long time.
– Do not use old and new or different types of batteries in combination.
– Batteries contain chemical substances, so they should be disposed properly.

Step 2: Setting up the TV

IMPORTANT!
Make sure you have completed all the necessary connections. (See pages 6-7 "Connecting TV").

1. Turn on the TV and set to the correct video-in channel. You should see the blue Philips DVD background screen on the TV.

   ➜ Usually these channels are between the lowest and highest channels and may be called FRONT, A/V IN, or VIDEO. See your TV manual for more details.
   ➜ Or, you may go to channel 1 on your TV, then press the Channel down button repeatedly until you see the Video In channel.
   ➜ Or, the TV Remote Control may have a button or switch that chooses different video modes.
   ➜ Or, set the TV to channel 3 or 4 if you are using an RF modulator.
2. If you are using external equipment, (eg. audio system or receiver), turn it on and select the appropriate input source for the DVD player output. Refer to the equipment owner's manual for detail.

To deactivate Progressive manually

The progressive scan display present 60 complete frames per seconds, rather than 30 frames per second of interlaced scanning (ordinary normal TV system). With nearly double the number of line, progressive scan offers higher picture resolution and eliminates bothersome motion artifacts those jagged edge on moving objects.

To enjoy the full quality potential offered by progressive scan feature, a progressive scan TV is required. To activate progressive function, refer to 'Progressive on page 29-30.

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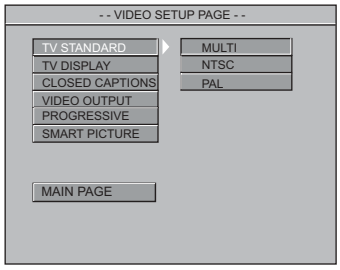
If the progressive function is activated, but your TV does not support progressive function or YPbPr cable is not connected accordingly, there will be a blank screen. You can deactivated progressive function as below:

1. Press **STANDBY ON** on the front panel to switch on the DVD player.
2. Press **OPEN/CLOSE** on the front panel to open the disc tray.
3. Press numerical key pad '**1**'.
   ➜ The blue Philips DVD background appears on the TV screen.

Selecting the colour system that corresponds to your TV

This DVD Player is compatible with both NTSC and PAL. In order for a DVD disc to play on this Player, the colour system of the Disc, the TV and the DVD Player should match.



1. Press **SYSTEM MENU**.
2. Press ▼▲ to select 'Video Setup Page'.
3. Enter its submenu by pressing **OK**.
4. Use the ◄►▲▼ keys on the Remote Control to navigate in the menu.

Move to 'TV Standard' and press ►.

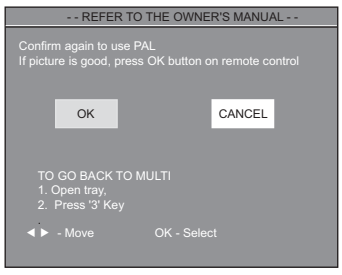
PAL – Select this if the connected TV is PAL system. It will change the video signal of a NTSC disc and output in PAL format.

NTSC – Select this if the connected TV is NTSC system. It will change the video signal of a PAL disc (VCD only) and output in NTSC format.

Multi – Select this if the connected TV is compatible with both NTSC and PAL (multi-system). The output format will be in accordance with the video signal of the disc.

Helpful Hint:
– Before changing the current TV Standard setting, ensure that your TV supports the 'selected TV Standard' system.
– If there is no proper picture on your TV, wait for 15 seconds for auto recovery.

- - REFER TO THE OWNER'S MANUAL - -
Changing MULTI to PAL
1. Ensure your TV supports PAL
2. If there is a blank screen on normal TV
wait 15 seconds for auto recover
OK
CANCEL
◄► - Move
OK - Select


- - REFER TO THE OWNER'S MANUAL - -
Confirm again to use PAL
If picture is good, press OK button on remote control
OK
CANCEL
TO GO BACK TO MULTI
1. Open tray,
2. Press '3' Key
◄► - Move
OK - Select

To exit from the menu
Press **SYSTEM MENU**.

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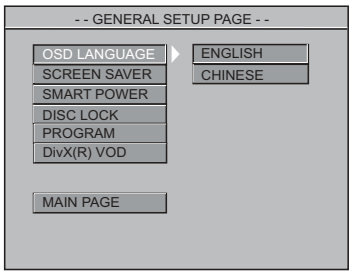
Getting Started

Step 3: Setting language preference

You can select your own preferred language settings. This DVD system will automatically switch to the language for you whenever you load a disc. If the language selected is not available on the disc, the disc's default language will be used instead. The OSD language in the system menu, will remain once selected.

Setting the OSD Language

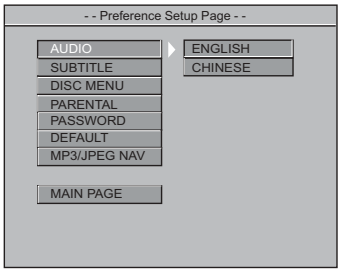


1. Press **SYSTEM MENU**.
2. Press ▼▲ to select 'General Setup' page.
3. Enter its submenu by pressing **OK**.
4. Use the ◄►▲▼ keys on the Remote Control to navigate in the menu.

   Move to 'OSD Language' and press ►.
5. Select a language and press **OK**.

To exit from the menu
Press **SYSTEM MENU**.

Setting the Audio, Subtitle and Disc menu language



1. Press **STOP** twice then, press **SYSTEM MENU**.
2. Press ▼▲ to select 'Preference Page'.
3. Enter its submenu by pressing **OK**.
4. Press ▲▼ to highlight the following in the Preference Page.
   – 'Audio' (disc's soundtrack)
   – 'Subtitle' (disc's subtitles)
   – 'Disc Menu' (disc's menu)
5. Enter its submenu by pressing ►.
6. Select a language and press **OK**.
7. Repeat steps 4~6 for other language settings.

To exit from the menu
Press **SYSTEM MENU**.

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IMPORTANT!
– Depending on the DVD or VIDEO CD, some operations may be different or restricted.
– Do not push on the disc tray or put any objects other than disc on the disc tray. Doing so may cause the disc player malfunction.

Playable Discs

Your DVD Player will play:

- **Discs:**
  - Digital Versatile Discs (DVDs)
  - Video CDs (VCDs)
  - Super Video CDs (SVCDs)
  - Digital Versatile Discs +Recordable (DVD+R)
  - Digital Versatile Discs + Rewritable (DVD+RW)
  - Compact Discs (CDs)
  - MP3 disc on CD-R(W):
    - Maximum 30 characters display.
    - Supported sampling frequencies : 32 kHz, 44.1 kHz, 48 kHz (MPEG-1) 16 kHz, 22.05 kHz, 24 kHz (MPEG-2)
    - Supported Bit-rates : 32~256 kbps (MPEG-1), 8~160 kbps (MPEG-2) variable bitrates
  - Picture files on CD-R(W):
    - JPEG picture.
  - MPEG-4 disc on CD-R(W):
    - Simple profile
    - Advanced simple profile (640-480)
  - DivX® disc on CD-R(W):
    - DivX 3.11, 4.x and 5.x
    - GMC (Global Motion Compensation) and Q-Pel (Quarter Pixel) not supported

Helpful Hint:
– If you are having trouble playing a certain disc, remove the disc and try a different one. Improper formatted disc will not play on this DVD Player.

This DVD Player can play DivX, MPEG-4, MP3, JPEG, VCD & SVCD files on a personally recorded CD-R/RW disc or commercial CD.

- Maximum files programmable is 24.
- MP3: Maximum supported bitrate is 320kbps or 48KHz.
- DivX: DivX 3.11, 4.x and 5.x comply with this standard, except GMC (Global Motion Compensation) and QP (Quarter Pixel) features.
- MPEG-4: All video codecs that comply with specifications of ISO-MPEG4.
- JPEG: For baseline JPEG, maximum resolution is 5120 x 3840 (beyond this picture will be cropped). For progressive JPEG, maximum resolution is 2048 x 1536 (beyond this, picture will not be displayed).

Region Codes

DVD discs must be labeled for ALL regions or Region 3 in order to play on this Player.
You cannot play Discs that are labeled for other regions.
Look for symbols above on your DVD discs.

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Disc Operations

IMPORTANT!

If the inhibit icon appears on the TV screen when a button is pressed, it means the function is not available on the current disc or at the current time.

Playing discs

1. Connect the power cords of the DVD Player and TV (and any optional stereo or AV receiver) to a power outlet.
2. Turn on the TV power and set to the correct Video In channel. (See page 12 "Setting up the TV").
3. Press **STANDBY-ON** on the DVD Player front panel.
   ➜ You should see the blue Philips DVD background screen on the TV.
4. Press **OPEN•CLOSE ⏏** button to open the disc tray and load in a disc, then press the same button again to close the disc tray.
   ➜ Make sure the label side is facing up. For double-sided discs, load the side you want to play facing up.
5. Playback will start automatically (depending on the disc type).
   ➜ If a disc menu appears on the TV, see "Using the Disc Menu".
   ➜ If the disc is locked by parental control, you must enter your four-digit password. (See page 31-32).
6. At any time, simply press **STOP** to stop playback.

Using the Disc Menu

Depending on the disc, a menu may appear on the TV screen once you load the disc.

To select a playback feature or item

- Use the ◄ ► ▲ ▼ or **numeric keypad (0-9)** on the Remote Control, then press **PLAY ►** to start playback.

To access to the menu

- Press **DISC MENU** on the Remote Control.

Basic playback controls

Unless otherwise stated, all operations described are based on Remote Control use.

Pausing playback (DVD/VCD/CD)

1. During playback, press **PAUSE II**.
   ➜ Playback will pause and sound will be muted.
2. During pause mode, press ◄ ► to select the previous or next picture frame.
3. To return to normal playback, press **PLAY ►**.

Selecting track/chapter (DVD/VCD/CD)

- Press |◄◄ / ►►| or use the numeric keypad (0-9) to key in a track/chapter number, then press **PLAY ►** to start playback.

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Mute (DVD/VCD/CD/MP3/DivX/JPEG)

- Press **MUTE** repeatedly to disable and enable the sound output.

Resuming playback from the last stopped point (DVD/VCD/CD)

Resume playback of the last 5 discs is possible, even if the disc was ejected or the power switched off.

- Load one of the last 5 discs.
  ➜ "LOADING" appears.
- Press **PLAY** ► and the disc will be played back from the last point.

To cancel resume mode

- In stop mode, press **STOP** ■ again.

Helpful Hint:

– *Resume option may not be available on some discs.*

Zoom (DVD/VCD)

Zooming allows you to enlarge the video image during playback.

1. Press **ZOOM** during playback to select the zoom factor.
2. Press ◄►▲▼ to pan across the TV screen.
3. Press **ZOOM** repeatedly to increase and decrease the zoom factor.
   ➜ Playback will continue.

Repeat (DVD/VCD/CD/MP3)

You can play a chapter, track, title or entire disc repeatedly.

- Press **REPEAT** continuously to choose a Repeat mode during playback.

➜ **DVD**
'CHAPTER REPEAT ON/TITLE REPEAT ON/ REPEAT OFF' appears on the TV screen.

➜ **VCD / CD**
'REP-ONE/REP-ALL/REPEAT OFF' appears on the TV screen.

For VCD2.0, SVCD discs:
– *Not available during Playback Control 'ON' (PBC On).*

➜ **MP3**
If MP3/JPEG Nav setting is 'WITH MENU':
'REP-ONE/FOLDER REPEAT/REP-ALL/REPEAT OFF' appears on the TV screen.

If MP3/JPEG Nav setting is 'NO MENU':
'REP-ONE/REP-ALL/REPEAT OFF' appears on the TV screen.

Helpful Hint:
– *Repeat option may not be available on some discs.*

Repeat A-B (DVD/VCD/CD)

You can play only a specific portion of a Title or Track repeatedly.

1. During playback, press **REPEAT A-B** as your chosen starting point.
   ➜ **'A TO B SET A'** appears on the TV screen.
2. When the disc reaches your selected ending point, press **REPEAT A-B** again.
   ➜ **'A TO B SET B'** appears on the TV screen, and the repeat sequence begins.
3. To resume regular playback, press **REPEAT A-B** again.
   ➜ **'A TO B CANCELLED'** appears on the TV screen.

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Disc Operations

Display (DVD/VCD)

The Display function allows you to start playback at any chosen time on the disc.

1. During playback, press **DISPLAY**.
   ➜ The time edit box appears.
2. Press **DISPLAY** once, use ◀ ▶ to highlight one of the option and use numeric key pad (0-9) to enter the number of the desired title (track) / chapter.
3. Press **DISPLAY** twice, use ▶ to highlight the time option and use numeric key pad (0-9) to enter hours, minutes and seconds from left to right in the time edit box.
4. Press **OK** to confirm selection.
   ➜ Playback starts from the selected time on the disc.

- Highlight 'TIME', then press ▲ ▼ to view the status of the playing disc.

  For DVD
  ➜ **'TITLE ELAPSED/ TITLE REMAIN/ CHP ELAPSED/ CHP REMAIN'** appears.

  For VCD
  ➜ **'SINGLE ELAPSED/ SINGLE REMAIN/ TOTAL ELAPSED/ TOTAL REMAIN'** appears.

Slow Motion (DVD/VCD/SVCD)

During playback, press ▲ or ▼ to select slow reverse (SR) and slow forward (SF) respectively.

➜ **DVD**

- Press ▲ or ▼ to select the slow reverse and slow forward speed:
  SFx2 → SFx4 → SFx8 → PLAY
  SRx2 → SRx4 → SRx8 → PLAY

➜ **VCD / SVCD**

- Press ▲ to select the slow forward speed:
  SFx1 → SFx2 → SFx3 → PLAY

Helpful Hint:
– *Slow Reverse is not available in VCD/ SVCDs.*

Searching (DVD/VCD/SVCD/CD/MP3)

Press ◀ or ▶ to select fast reverse (FR) search or fast forward (FF) search respectively.

➜ **DVD / MP3**
FRx2 → FRx4 → FRx6 → FRx8 → PLAY
FFx2 → FFx4 → FFx6 → FFx8 → PLAY

➜ **VCD / SVCD / CD**
FRx1 → FRx2 → FRx3 → FRx4 → PLAY
FFx1 → FFx2 → FFx3 → FFx4 → PLAY

Program Playback (DVD/VCD/CD)

1. In Stop mode, press **SYSTEM MENU** and press ▼ ▲ to select 'General Setup Page'.
2. Select 'Program' and set it to ON, then press **OK**.
   ➜ The 'Program' menu appears.
3. Use the ◀ ▶ ▲ ▼ keys and numeric keypad (0-9) on the Remote Control to select a preferred programme.
4. Press **PLAY** to start playback.
   ➜ For DVD, the maximum programmable title or chapter is 16.
   ➜ For VCD/CD, the maximum programmable track is 24.

- **To erase a selection in Program,**
  Use the ◀ ▶ ▲ ▼ keys to select the programmed item(s), press **OK** to delete.
- **To list out the programmed item(s),**
  In Stop mode, press **SYSTEM MENU** to select 'Program' to ON and then press **OK**.

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Special DVD Features

Playing a Title

1. Press **RETURN/TITLE**.
   ➜ The disc title menu appears on the TV screen.
2. Use ▲▼◄► keys or **numeric keypad (0-9)** to select a play option.
3. Press **OK** key to confirm.

Camera Angle

- Press **ANGLE** repeatedly to select different desired angle.

Changing the Audio Language

For DVD

- Press **AUDIO** repeatedly to select different audio languages.

Changing the Audio Channel

For VCD

- Press **AUDIO** to select the available audio channels provided by the disc (LEFT VOCAL, RIGHT VOCAL, LEFT MONO, RIGHT MONO, STEREO).

Subtitles

- Press **SUBTITLE** repeatedly to select different subtitle languages.

Special VCD & SVCD Features

Playback Control (PBC)

For VCD with Playback Control (PBC) feature (version 2.0 only)

- Press **DISC MENU** to toggle between 'PBC ON' and 'PBC OFF'.
  ➜ If you select 'PBC ON', the disc menu (if available) will appear on the TV.
  ➜ Use the |◄◄ / ►►| or the numeric keypad (0-9) to select a play option, then press **PLAY** ► to start playback.
- During playback, pressing **RETURN/ TITLE** will return to the menu screen (if PBC is on).

If you want to skip the index menu and playback directly from the beginning,

- Press **DISC MENU** key on the remote control to switch to PBC off.

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Disc Operations

Preview (VCD/SVCD/CD)

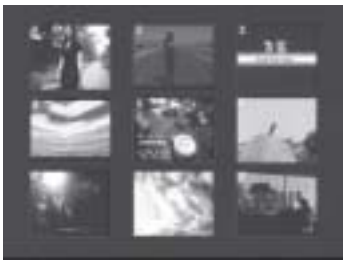
For VCD/SVCD

- At stop mode, press **PREVIEW** on the remote control.
  ➜ The preview menu will be displayed.

1. INTRO
DVD player will playback every track for few seconds with full screen to obtain a summary of the disc content.

1. Press numerical key pad '**1**'.
2. Press **STOP** to quit previewing.

2. DISC
This function is used to divide a disc into nine parts by regular intervals and display them on one page to help you preview the whole disc.



1. Press numerical key pad '**2**'.
   ➜ The preview of 9 track with full screen will appear.
2. To select other tracks beyond this page, press |◄◄ or ►►|.
3. Press the numerical key pad to select preferred track.

3. TRACK
This function is used to divide a single track into nine parts by regular intervals and display them on one page to help you preview the selected track.

1. Press numerical key pad '**3**'.
   ➜ The preview of one track with 9 parts in a full screen will appear.
2. To select other tracks, press |◄◄ or ►►|.
3. Press the numerical key pad to choose the starting point.

4. EXIT

1. Press numerical key pad '**4**'.

For CD

- At stop mode, press **PREVIEW** on the remote control.
  ➜ Each track will be played for about 10 seconds.
  ➜ For JPEG CD, press **PREVIEW** to view 9 thumbnail pictures on the TV screen (see page 22).

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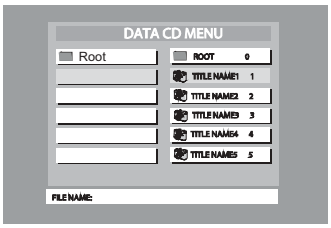
Playing MP3/DivX/MPEG-4/ JPEG/Kodak Picture CD

IMPORTANT!
You have to turn on your TV and set to the correct Video In channel. (See page 12 "Setting up the TV").

General Operation

1. Load an MP3/DivX/MPEG-4/JPEG disc.
   ➜ The data disc menu appears on the TV screen.
2. Use ▲ ▼ to select the folder and press **OK** to open the folder.



3. Press ▲ ▼ or use the numeric keypad (0-9) to highlight an option.
4. Press **OK** to confirm.
   ➜ The playback will start from the selected file to the end of the folder.

- During MP3 playback, the selected track name and current playing time will be displayed on the 'File Name' column.
- Press **DISC MENU** on the remote control to turn on/off the menu.
- If the 'MP3/JPEG Nav' setting is set to NO MENU, the DATA CD MENU will no appear on the TV screen (see page 32).

Helpful Hint:
– For Kodak Picture CD, playback will start automatically without a disc menu and press STOP ■ to display thumbnails of 9 pictures.

Playback selection

During playback, you can;

- Press ⏮ / ⏭ to select another file in the current folder.
- Use ◄ ► ▲ ▼ on the remote to rotate/flip the picture files.
- Press **II** to pause playback.

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Disc Operations

Special MP3/JPEG/DivX features

IMPORTANT!
You have to turn on your TV and set to the correct Video In channel. (See page 12 "Setting up the TV").

Preview Function

This function shows the content of the current folder or the whole disc.

1. Press **PREVIEW** during playback.
   ➜ Thumbnails of 9 pictures appears on the TV screen.
   (example for 9 thumbnail pictures display)

2. Press ⏮ / ⏭ to display the other pictures on the previous/next page.
3. Use ◄►▲▼ to highlight one of the picture and press **OK** to start playback.

For DivX

- Press **AUDIO** repeatedly to select different audio languages.
- Press **SUBTITLE** repeatedly to select different subtitle languages.

Zoom picture

For JPEG

- During playback, press **ZOOM** repeatedly to switch '**ZOOM ON**' or '**ZOOM OFF**'.
- Press ⏮ / ⏭ to display the picture with different scales.
- Use ◄►▲▼ to view the zoomed picture.

For DivX

- During playback, press **ZOOM** repeatedly to select 'zoom x 2' or 'zoom off'.

Playback with multi-angles (JPEG)

- During playback, press ▲▼◄► to rotate the picture on the TV screen.
  ▲: flip the picture vertically
  ▼: flip the picture horizontally
  ◄: rotate the picture anti-clockwise
  ►: rotate the picture clockwise

Scan Effect (JPEG)

- Press **ANGLE** repeatedly to choose different scan effect.
  ➜ Various of scan effect appears on the top left hand corner on the TV screen.

Playback speed control (MP3)

- Press ◄► repeatedly to play backward/ forward at different speed.
- You can press ⏮ / ⏭ to change the tracks.

JPEG and MP3 simultaneous playback

1. Select a MP3 track and press **AUDIO**.
   ➜ 'Music Slide Show' appears on the TV screen.
2. Press ▲▼ to select a picture file, then press **OK**.
   ➜ The picture will be played back in sequence together with MP3 music.
3. To quit simultaneous playback, press **STOP**.
   ➜ The picture and MP3 music playback will stop.

Helpful Hints:
– If the disc menu doesn't appear on the TV screen, switch 'MP3/JPEG Navigator' to 'With Menu' (see page 32).
– During Music slide show playback, all buttons are disabled except PLAY, PAUSE, STOP, OPEN/CLOSE and POWER.

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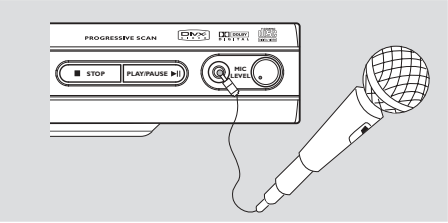
Playing Karaoke discs

IMPORTANT!
You have to turn on your TV and set to the correct Video In channel. (See page 12 "Setting up the TV").

General Operation

1. Connect a microphone (not supplied) to MIC on the front panel of the DVD player.



2. Press **KARAOKE** button on the remote control to set MIC on.
   ➜ 'MIC ON' appears on the TV screen.
3. Load a karaoke disc and press PLAY ►.
4. Adjust the microphone volume using **LEVEL** button on the front panel of the DVD player.

Helpful Hint:
– Before connecting the microphone, set the microphone volume to the minimum level to prevent howling.

Key setting

- This function allows you to adjust the key tone level to match with your vocal.
- Press **KEY** and use ▲▼ to adjust the pitch to adopt your voice.

Vocal

- You can fade out the original vocal from a karaoke disc.
- Press **VOCAL** repeatedly to choose different audio modes.

For DVD karaoke discs
➜ AUDIO 1 VOCAL, AUDIO 2 VOCAL, NO VOCAL.

For VCD karaoke discs
➜ LEFT VOCAL, RIGHT VOCAL, NO VOCAL.

Mode

- Press **MODE** repeatedly to toggle between 'Echo On/Off' or 'Key'.

1. Press ◄► to select 'Echo' or 'Key'.
2. When 'Echo' is selected, press ▲▼ to choose 'On' or 'Off'.
3. When 'Key' is selected, press ▲▼ to adjust the key tone level.

Helpful Hint:
– Karaoke function is available only during MIC ON mode.
– MIC Analog signal is not possible on the digital output.
– When setting MIC ON, the player will automatically switch to 2 channel output.

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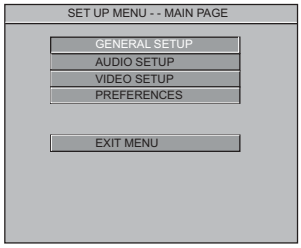
DVD Menu Options

Basic Operations

1. Press **SYSTEM MENU** in the STOP mode to enter the Setup Menu.
2. Press **OK** to enter the next level submenu or confirm your selection.
3. Press ◄► to enter the submenu or return to the previous menu.
4. Press ▲▼ to highlight the desired menu.
5. Press **SYSTEM MENU** to quit the setup menu.
   ➜ The settings will be stored in the player's memory even if the player is switched off.

General Setup menu

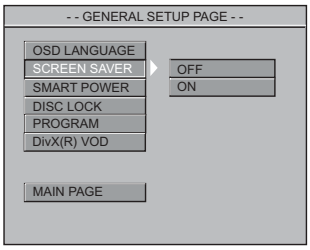
The options included in General Setup menu are: 'OSD Language', 'Screen Saver', 'Smart Power', 'Disc Lock', 'Program' and 'DivX(R) VOD'.
Follow the steps below:



1. Press **SYSTEM MENU** to enter the setup menu.
2. Press ▲▼ to select the 'General Setup' page.
3. Press **OK** to confirm.

NOTE:
Some of the features in the DVD Menu Options are described in "Getting Started".

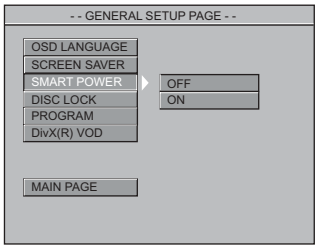
Screen Saver



1. Press ▲▼ to highlight 'Screen Saver'.
2. Enter its submenu by pressing ►.
3. Move the cursor by pressing ▲▼ to highlight the selected item.
   ➜ **Off**: Screen saver is disabled.
   ➜ **On**: In STOP or No DISC mode, if no actions are performed within 5 minutes, the screen saver will be activated.
4. Press **OK**, then press ◄ to return to General Setup Page.

Smart Power

When in 'Stop' or 'No Disc' mode, the DVD Player will switch to standby mode after 15 minutes of inactivity for energy saving.



1. Press ▲▼ to highlight 'Smart Power'.
2. Enter its submenu by pressing ►.
3. Move the cursor by pressing ▲▼ to highlight the selected item.
   ➜ **Off**: Smart Power is disabled.
   ➜ **On**: In STOP or No DISC mode, if no actions are performed for 15 minutes, the smart power will be activated.
4. Press **OK**, then press ◄ to return to General Setup Page.

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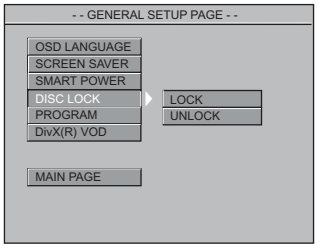
Disc Lock (DVD/VCD/CD)



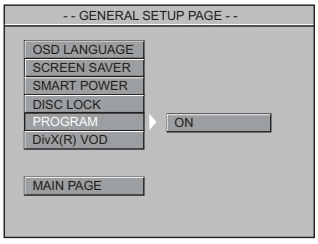
1. Press ▲▼ to highlight 'Disc Lock'.
2. Enter its submenu by pressing ▶.
3. Move the cursor by pressing ▲▼ to highlight the selected item.
   ➜ **Lock**: Select this option and the player will lock the current playing disc.
   ➜ **Unlock**: Select this option and the player will unlock the current playing disc.

- You will need to input the password to confirm unlock selection. The initial password is 1234 (see 'Password' on page 32-33).

4. Press **OK**, then press ◀ to return to General Setup Page.

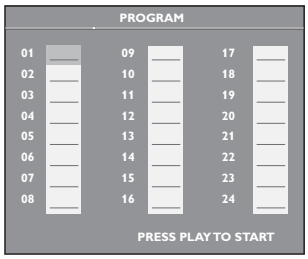
Helpful Hint:
– *When a specific locked disc is loaded, a prompt menu will appear.*

Program

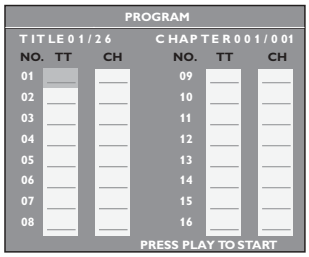


1. Press ▲▼ to highlight 'Program'.
2. Enter its submenu by pressing ▶.
   ➜ **On**: Select this option to activate program function.
3. Press **OK** to enter to 'Program' menu (see 'Program Playback' on page 18).

For VCD / CD

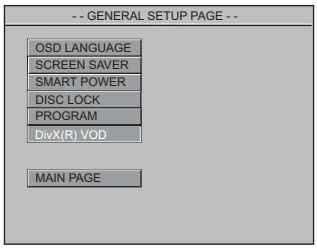


For DVD



DivX(R) VOD

Philips provide you the DivX® VOD (Video On Demand) registration code that allows you to rent and purchase videos using the DivX® VOD service. For more information, visit www.divx.com/vod.



1. Press ▲▼ to highlight 'DivX(R) VOD'.
2. Press **OK** on the remote control.
   ➜ The registration code will appear.

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DVD Menu Options

- - DivX(R) REGISTRATION - -
Your registration code is : YDLAILYF
Please use this code to register this player with the DivX(R) Video On Demand service.
This will allow you to rent and purchase videos using the DivX(R) Video On Demand format.
To learn more go to www.divx.com/vod
DONE

3 Use the registration code to purchase or rent the videos from DivX® VOD service at www.divx.com/vod.
Follow the instrucitons and download the video onto a CD-R for playback on this DVD player.

Helpful Hint:
– All the downloaded videos from DivX® VOD can only be played back on this DVD player.

Audio Setup Menu

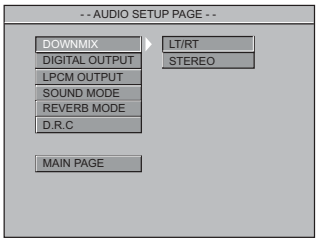
The options included in Audio Setup menu are: 'Downmix', 'Digital Output', 'LPCM Output', 'Sound Mode', 'Reverb Mode' and 'D.R.C.'.

1 Press **SYSTEM MENU**.

2 Press ▲▼ to select the 'Audio Setup' page.

3 Press **OK** to confirm.

Downmix



1 Press the ▲▼ keys to highlight 'Downmix'.

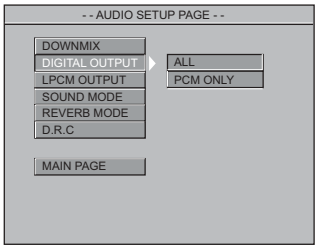
2 Enter its submenu by pressing ▶.

3 Move the cursor by pressing the ▲▼ keys to highlight the selected item.
➜ **LT/RT**: Select this option if your DVD Player is connected to a Dolby Pro Logic decoder.
➜ **Stereo**: Select this option when output delivers sound from only the two front speakers.

4 Press **OK**, then press ◀ to return to Audio Setup Page.

Digital Output

Set the Digital output according to your optional audio equipment connection.



1 Press ▲▼ to highlight 'Digital Output'.

2 Enter its submenu by pressing ▶.

3 Move the cursor by pressing ▲▼ to highlight the selected item.
➜ **All**: If you have connected your DIGITAL AUDIO OUT to a multi-channel decoder/receiver.
➜ **PCM Only**: Only if your receiver is not capable of decoding multi-channel audio.

4 Press **OK**, then press ◀ to return to Audio Setup Page.

Helpful Hint:
– If DIGITAL OUTPUT is set to 'All', all audio settings except MUTE are invalid.

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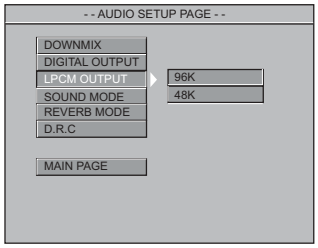
LPCM Output

If you connect the DVD Player to a PCM compatible receiver via the digital terminals, such as coaxial or optical etc, you may need to adjust 'LPCM Output'. Discs are recorded at a certain sampling rate. The higher the sampling rate, the better the sound quality.

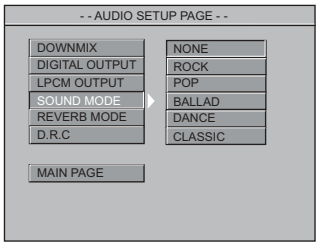


1. Press ▲▼ to highlight 'LPCM Output'.
2. Enter its submenu by pressing ▶.
3. Move the cursor by pressing ▲▼ to highlight the selected item.
   ➜ **48K**: Playback a disc recorded at the sampling rate of 48kHz.
   ➜ **96K**: Playback a disc recorded at the sampling rate of 96kHz.
4. Press **OK**, then press ◀ to return to Audio Setup Page.

Helpful Hints:
– Most discs are recorded at the sampling rate of 48kHz.
– If '96K' is selected, ensure that receiver or amplifier supports 96kHz digital signals.

Sound Mode

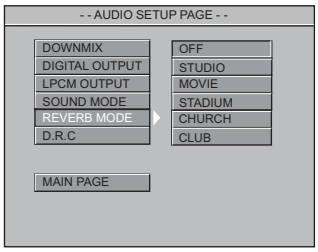
The digital sound effect allows you to select from various pre-set modes that control the frequency bands of sound optimise certain musical styles. It enhances the excitement and enjoyment of your favourite music.



1. Press ▲▼ to highlight 'Sound Mode'.
2. Enter its submenu by pressing ▶.
3. Move the cursor by pressing ▲▼ to highlight the selected item.
   ➜ **None, Rock, Pop, Ballad, Dance, Classic**
4. Press **OK**, then press ◀ to return to Audio Setup Page.

Reverb Mode

Reverb mode provides a virtual surround sound experience using just two speakers.



1. Press ▲▼ to highlight 'Reverb Mode'.
2. Enter its submenu by pressing ▶.
3. Move the cursor by pressing ▲▼ to highlight the selected item.
   ➜ **Off, Studio, Movie, Stadium, Church, Club**
4. Press **OK**, then press ◀ to return to Audio Setup Page.

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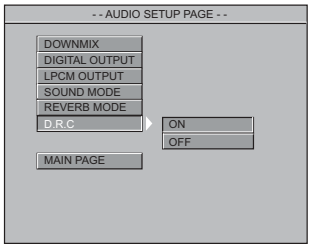
DVD Menu Options

D.R.C. (Dynamic Range Control)

High volume outputs are softened, enabling you to watch your favourite action movie without disturbing others at night.



1. Press ▲▼ to highlight 'D.R.C'.
2. Enter its submenu by pressing ▶.
3. Move the cursor by pressing ▲▼ to highlight the selected item.
   → **Off**: Audio with uncompressed dynamic range.
   → **On**: Audio with fully compressed dynamic range.
4. Press **OK**, then press ◀ to return to Audio Setup Page.

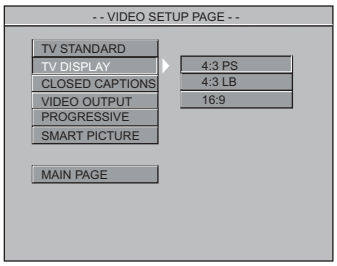
Video Setup Menu

The options included in Video Setup menu are: 'TV Standard', 'TV Display', 'Closed Captions', 'Video Output', 'Progressive' and 'Smart Picture'.

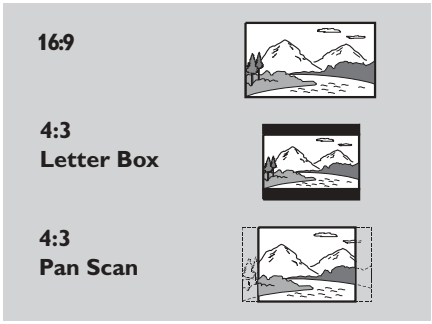
1. Press **SYSTEM MENU**.
2. Press ▲▼ to select the 'Video Setup' page.
3. Press **OK** to confirm.

TV Display

Set the aspect ratio of the DVD Player according to the TV you have connected.



1. Press ▲▼ to highlight 'TV Display'.
2. Enter its submenu by pressing ▶.
3. Move the cursor by pressing ▲▼ to highlight the selected item.



16:9
→ If you have a wide-screen TV.

4:3 Letter Box
→ If you have a normal TV. In this case, a wide picture with black bands on the upper and lower portions of the TV screen will be displayed.

4:3 Pan Scan
→ If you have a normal TV and want both sides of the picture to be trimmed or formatted to fit your TV screen.

4. Press **OK**, then press ◀ to return to Video Setup Page.

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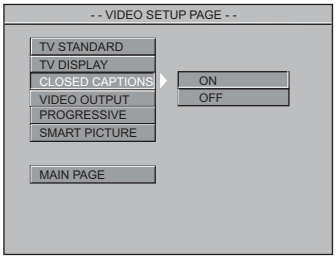
Closed Captions

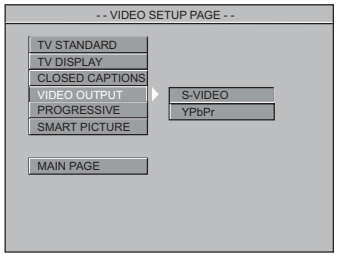
Closed captions are data that are hidden in the video signal on specific discs, invisible without a special decoder. The difference between subtitles and closed captions is that subtitles are intended for hearing persons and captions are for the hearing impaired. For example, closed captions show sound effects (e.g., "phone ringing" and "footsteps"), while subtitles don't.
Before you select this function, please ensure that the disc contains closed captions information and your TV set also has this function.



1. Press ▲▼ to highlight 'Closed Captions'.
2. Enter its submenu by pressing ▶.
3. Move the cursor by pressing ▲▼ to highlight the selected item.
   ➜ **On**: Enable Closed Captions.
   ➜ **Off**: Disable Closed Captions.
4. Press **OK**, then press ◀ to return to Video Setup Page.

Video Output

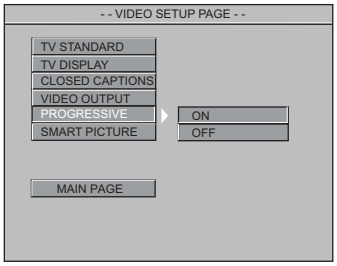
Video Output selection enables you to choose the type of video output suitable for your DVD player.



1. Press ▲▼ to highlight 'Video Output'.
2. Enter its submenu by pressing ▶.
3. Move the cursor by pressing ▲▼ to highlight the selected item.
   ➜ **S-Video**: If you have connected the S-Video output to a TV.
   ➜ **YPbPr**: If you have connected the YPbPr output to a TV.
4. Press **OK**, then press ◀ to return to Video Setup Page.

Progressive

To select this item you must set 'Video Output' to Y Pb Pr and ensure that your TV has progressive scan (see page 7).



1. Press ▲▼ to highlight 'Progressive'.
2. Enter its submenu by pressing ▶.
3. Move the cursor by pressing ▲▼ to highlight the selected item.
   ➜ **On**: Enable Progressive.
   ➜ **Off**: Disable Progressive.
4. Press **OK**, then press ◀ to return to Video Setup Page.

Helpful Hint:
– If a blank/distorted TV screen appears, wait for 15 seconds for auto recover.
– To deactivate the progressive function, refer to the hint menu displayed on the TV screen or see pages 12 and 13.

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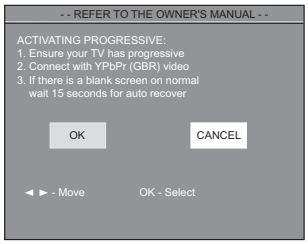
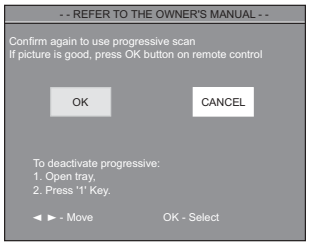
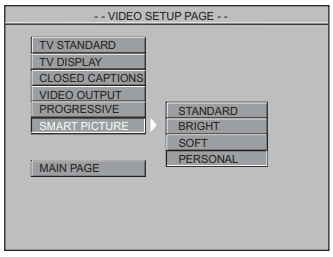
DVD Menu Options


- - REFER TO THE OWNER'S MANUAL - -
ACTIVATING PROGRESSIVE:
1. Ensure your TV has progressive
2. Connect with YPbPr (GBR) video
3. If there is a blank screen on normal
wait 15 seconds for auto recover
OK
CANCEL
◄ ► - Move
OK - Select


- - REFER TO THE OWNER'S MANUAL - -
Confirm again to use progressive scan
If picture is good, press OK button on remote control
OK
CANCEL
To deactivate progressive:
1. Open tray,
2. Press "1" Key.
◄ ► - Move
OK - Select

Smart Picture

In this menu, you can choose a picture setting from a fixed set of ideal predefined picture settings.



1. Press ▲▼ to highlight 'Smart Picture'.
2. Enter its submenu by pressing ▶.
3. Move the cursor by pressing ▲▼ to highlight the selected item.
   ➜ **Standard**: select the standard picture setting.
   ➜ **Bright**: make the TV picture brighter.
   ➜ **Soft**: make the TV picture softer.
   ➜ **Personal**: achieve the colour effect set in the 'Brightness', 'Contrast', 'Hue' and 'Saturation' menu.
4. Press **OK**, then press ◀ to return to Video Setup Page.

Brightness

You can personalise your picture colour by adjusting brightness,contrast, hue and saturation.

1. Press ◀ ▶ to highlight 'Brightness'.
2. Press ▼ to open the level bar.
3. Press ◀ ▶ to decrease or increase the brightness level.
4. Press **OK** to exit.

- Repeat steps 1 - 4 for adjusting the contrast, hue and saturation feature.

Preference Setup Menu

The options included in Preference Setup menu are: 'Audio', 'Subtitle', 'Disc Menu', 'Parental', 'Password', 'Default' and 'MP3/ JPEG Nav'.

1. Press **STOP** twice.
2. Press **SYSTEM MENU** to enter the setup menu.
3. Press ▲ ▼ to select the 'Preference' page.
4. Press **OK** to confirm.

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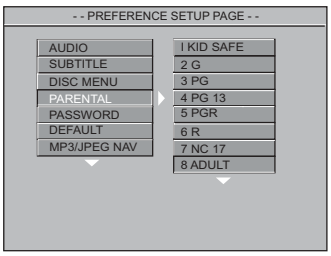
Parental

Some DVDs may have a parental level assigned to the complete disc or to certain scenes on the disc. This feature lets you set a playback limitation level. The rating levels are from 1 to 8 and are country dependent. You can prohibit the playing of certain discs that are not suitable for your children or have certain discs played with alternative scenes.

- VCD, SVCD, CD have no level indication, so parental control function has no effect on those kinds of discs. This applies to most illegal DVD discs.



1. Press ▲▼ to highlight 'Parental'.
2. Enter its submenu by pressing ▶.
3. Use ▲▼ to highlight a rating level for the disc inserted.
   ➜ DVDs that are rated above the level you selected will not play unless you enter your four-digit password and choose a higher level rating.
   ➜ To disable Parental controls and have all Discs play, choose 'No Parental'.
4. Press **OK**, then press ◀ to return to Preference Setup Page.

Helpful Hint:
– *Some DVDs are not encoded with a rating though the movie rating may be printed on the Disc cover. The rating level feature does not work for such Discs.*

Rating explanations

1-2 G
– General Audience; recommended as acceptable for viewers of all ages.

3 PG
– Parental Guidance suggested.

4 PG13
– Material is unsuitable for children under age 13.

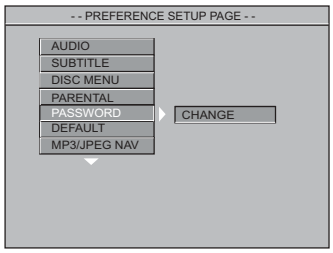
5-6 PG-R
– Parental Guidance - Restricted; recommended that parents restrict children under 17 from viewing or allow to view only when supervised by a parent or adult guardian.

7 NC-17
– No children under age 17; not recommended viewing for children under age 17.

8 ADULT
– Mature material; should be viewed only by adults due to graphic sexual material, violence or language.

Password

This feature is used for Parental Control. Enter your four digit password when a hint is displayed on the screen. The default password is 1234.



1. Press ▲▼ to highlight 'Password'.
2. Enter its submenu by pressing ▶.
3. Press **OK** to open the password 'Change' page.

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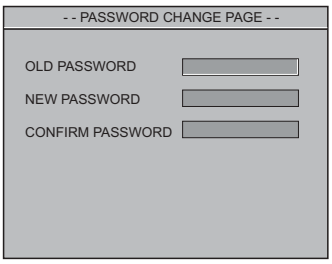
DVD Menu Options

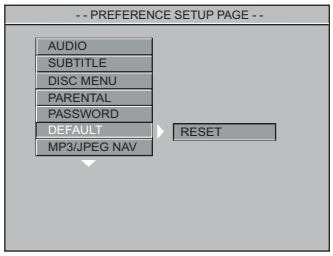


4. Enter the existing 4-digit code.
5. Enter the new 4-digit code.
6. Enter the new 4-digit code a second time to confirm.
   ➜ The new 4 digit code will be take effect.
7. Press **OK**, then press ◀ to return to Preference Setup Page.

Helpful Hint:
– If the password has been changed, the parental and disc lock code will also be changed.The default password won't take effect.
*– To reset the password to the default settings (1234), press **STOP** key four times.*

Default

Setting the 'Default' function will reset all options and your personal settings to the factory defaults and all your personal settings will be erased.

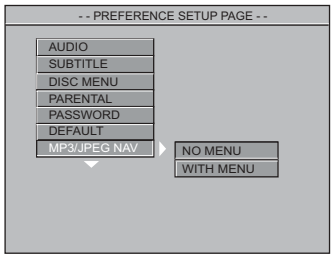


1. Press ▲▼ to highlight 'Default'.
2. Highlight RESET by pressing ▶.
3. Press **OK**, then press ◀ to return to Preference Setup Page.

Caution!
– When this function is activated, all settings will be reset to factory defaults except 'Parental' and 'Password'.

MP3/JPEG Navigator

This feature allows you to select alternate settings when you playback picture CD (JPEG/DivX) and MP3 CD.



1. Press ▲▼ to highlight 'MP3/JPEG Nav'.
2. Enter its submenu by pressing ▶.
3. Move the cursor by pressing ▲▼ to highlight the selected item.
   ➜ **No Menu:** playback all pictures (JPEG/DivX) or MP3 music in sequence automatically without menu.
   ➜ **With Menu:** playback pictures (JPEG/DivX) or MP3 music in the selected folder with menu.
4. Press **OK**, then press ◀ to return to Preference Setup Page.

Helpful Hint:
– MP3/JPEG Nav can be set only in disc recorded with menu and may not be available on some discs eventhough it is set to 'WITH MENU'.

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Specifications

TV STANDARD (PAL/50Hz) (NTSC/60Hz)

Number of lines	625	525
Playback	Multistandard	(PAL/NTSC)

VIDEO PERFORMANCE

CVBS	1Vpp — 75
YPbPr	0.7Vpp — 75

VIDEO FORMAT

Digital Compression	MPEG 2 for DVD,SVCD MPEG 1 for VCD MPEG-4	
DVD	**50Hz**	**60Hz**
Horiz. resolution	720 pixels	720 pixels
Vertical resolution	576 lines	480 lines
VCD	**50Hz**	**60Hz**
Horiz. resolution	352 pixels	352 pixels
Vertical resolution	288 lines	240 lines

AUDIO FORMAT

Digital	Mpeg/ AC-3/ PCM	compressed Digital 16, 20, 24 bits fs, 44.1, 48, 96 kHz
MP3(ISO 9660)		96, 112, 128, 256 kbps & variable bit rate fs, 32, 44.1, 48 kHz

Analog Sound Stereo
Dolby Surround compatible downmix from Dolby Digital multi-channel sound

AUDIO PERFORMANCE

DA Converter	24 bit	
DVD	fs 96 kHz	4Hz- 44kHz
	fs 48 kHz	4Hz- 22kHz
SVCD	fs 48 kHz	4Hz- 22kHz
	fs 44.1kHz	4Hz- 20kHz
CD/VCD	fs 44.1kHz	4Hz- 20kHz
Signal-Noise (1kHz)		90 dB
Dynamic range(1kHz)		85 dB
Crosstalk (1kHz)		>90 dB
Distortion+noise (1kHz)		>80 dB
MPEG MP3	MPEG Audio L3	

CONNECTIONS

YPbPr Output	Cinch 3x
Video Output	Cinch (yellow)
Audio Output(L+R)	Cinch (white/red)
Digital Output	1 coaxial, 1 optical IEC60958 for CDDA / LPCM IEC61937 for MPEG 1/2, Dolby Digital

CABINET

Dimensions (w x h x d)	435 x 43 x 248 mm
Weight	Approximately 2.0 kg

POWER CONSUMPTION

Power Supply Rating	110 – 240V; 50-60 Hz
Power consumption in Standby mode	< 0.8W

Specifications subject to change without prior notice

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Troubleshooting

WARNING
Under no circumstances should you try to repair the system yourself, as this will invalidate the warranty. Do not open the system as there is a risk of electric shock.

If a fault occurs, first check the points listed below before taking the system for repair. If you are unable to remedy a problem by following these hints, consult your dealer or Philips for help.

Problem	Solution
No power	– Check if the AC power cord is properly connected. – Press the STANDBY ON on the front of the DVD system to turn on the power.
No picture	– Refer to your TV's manual for correct Video In channel selection. Change the TV channel until you see the DVD screen. – Check if the TV is switched on.
Distorted picture	– Sometimes a small amount of picture distortion may appear depending on the disc being played back. This is not a malfunction.
Completely distorted picture or black/white picture with DVD	– Connect DVD Player directly to the TV. – Make sure the disc is compatible with the DVD/ Player. – Ensure that the DVD Player's TV Standard is set to match that of the Disc and your TV.
No sound or distorted sound	– Adjust the volume. – Check that the speakers are connected correctly.
No audio at digital output	– Check the digital connections. – Check if your receiver can decode MPEG-2 or DTS and if not, please make sure the digital output is set to PCM. – Check if the audio format of the selected audio language matches your receiver capabilities.
Disc can't be played	– The DVD+R/CD-R must be finalized. – Ensure the disc label is facing up. – Check if the disc is defective by trying another disc. – If you have recorded a Picture CD or MP3 CD yourself, ensure that your disc contains at least 10 pictures or 5 MP3 tracks. – Region code incorrect.
Picture freezes momentarily during playback	– Check the disc for fingerprints/scratches and clean with a soft cloth wiping from centre to edge.
No return to start-up screen when disc is removed	– Reset the unit by switching the player off, then on again.

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Troubleshooting

Problem	Solution
The player does not respond to the Remote Control	– Aim the Remote Control directly at the sensor on the front of the player. – Reduce the distance to the player. – Replace the batteries in the Remote Control. – Re-insert the batteries with their polarities (+/– signs) as indicated.
Buttons do not work	– To completely reset the player, unplug the AC cord from the AC outlet for 5-10 seconds.
Player does not respond to some operating commands during playback.	– Operations may not be permitted by the disc. Refer to the instructions of the disc jacket.
DVD Player cannot read CDs/DVDs	– Use a commonly available cleaning CD/DVD to clean the lens before sending the DVD Player for repair.
Menu items cannot be selected	– Press STOP twice before selecting System Menu. – Depending on the disc availability, some menu items cannot be selected.
Unable to play DivX movies	– Check that the DivX file is encoded in 'Home Theater' mode with DivX 5.x encoder.

If you are unable to remedy a problem by following these hints, consult your dealer or service center (HOTLINE).

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Glossary

Analog: Sound that has not been turned into numbers. Analog sound varies, while digital sound has specific numerical values. These jacks send audio through two channels, the left and right.

Aspect ratio: The ratio of vertical and horizontal sizes of a displayed image. The horizontal vs. vertical ratio of conventional TVs. is 4:3, and that of wide-screens is 16:9.

AUDIO OUT Jacks: Jacks on the back of the DVD System that send audio to another system (TV, Stereo, etc.).

Bit Rate: The amount of data used to hold a given length of music; measured in kilobits per seconds, or kbps. Or, the speed at which you record. Generally, the higher the bit rate, or the higher the recording speed, the better the sound quality. However, higher bit rates use more space on a Disc.

Chapter: Sections of a picture or a music piece on a DVD that are smaller than titles. A title is composed of several chapters. Each chapter is assigned a chapter number enabling you to locate the chapter you want.

Component Video Out Jacks: Jacks on the back of the DVD System that send high-quality video to a TV that has Component Video In jacks (R/G/B, Y/Pb/Pr, etc.).

Disc menu: A screen display prepared for allowing selection of images, sounds, subtitles, multi-angles, etc recorded on a DVD.

Digital: Sound that has been converted into numerical values. Digital sound is available when you use the DIGITAL AUDIO OUT COAXIAL or OPTICAL jacks. These jacks send audio through multiple channels, instead of just two channels as analog does.

DivX 3.11/4.x/5.x: The DivX codec is a patent-pending, MPEG-4 based video compression technology, developed by DivXNetworks, Inc., that can shrink digital video to sizes small enough to be transported over the internet, while maintaining high visual quality.

Dolby Digital: A surround sound system developed by Dolby Laboratories containing up to six channels of digital audio (front left and right, surround left and right, center and subwoofer).

JPEG: A very common digital still picture format. A still-picture data compression system proposed by the Joint Photographic Expert Group, which features small decrease in image quality in spite of its high compression ratio.

MP3: A file format with a sound data compression system. "MP3" is the abbreviation of Motion Picture Experts Group 1 (or MPEG-1) Audio Layer 3. By using MP3 format. one CD-R or CD-RW can contain about 10 times as much data volume as a regular CD can.

Multichannel: DVD is specified to have each sound track constitute one sound field. Multichannel refers to a structure of sound tracks having three or more channels.

Parental Control: A function of the DVD to limit playback of the disc by the age of the users according to the limitation level in each country. The limitation varies from disc to disc; when it is activated, playback will be prohibited if the software's level is higher than the user-set level.

PCM (Pulse Code Modulation): A system for converting analog sound signal to digital signal for later processing, with no data compression used in conversion.

Playback control (PBC): Refers to the signal recorded on video CDs or SVCDs for controlling reproduction. By using menu screens recorded on a Video CD or SVCD that supports PBC, you can enjoy interactive-type software as well as software having a search function.

Progressive Scan: It displays all the horizontal lines of a picture at one time, as a signal frame. This system can convert the interlaced video from DVD into progressive format for connection to a progressive display. It dramatically increases the vertical resolution.

Region code: A system for allowing discs to be played back only in the region designated beforehand. This unit will only play discs that have compatible region codes. You can find the region code of your unit by looking on the product label. Some discs are compatible with more than one region (or ALL regions).

S-Video: Produces a clear picture by sending separate signals for the luminance and the color. You can use S-Video only if your TV has S- video In jack.

Title: The longest section of a picture or music feature on DVD, music, etc., in video software, or the entire album in audio software. Each title is assigned a title number enabling you to locate the title you want.

VIDEO OUT jack: Jack on the back of the DVD System that sends video to a TV.

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AUSTRALIA - Philips 3 years Manufacturers Warranty for Australia only

These warranty conditions are valid for the following consumer electronics products: Colour Televisions, Video Cassette Recorders, CD Players and Recorders, DVD Players and Recorders, Audio Systems and Portable Audio.

The benefits given to the purchaser by this warranty are in addition to all other rights and remedies which the purchaser has in respect of the product under the Trade Practices Act or other Commonwealth or State Law.

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1. All claims for warranty service should be made to your nearest Philips Authorised Service Centre. Reasonable evidence of date of purchase must be provided.
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Geelong	**Perth**
Gold Coast	**Sydney**
Hobart	**Wollongong**

or to find the location of your nearest recommended Authorised Service Centre outside the above cities please call our National Service telephone number:

1300 361 392

Please record the following information for your records and keep in a safe place.

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Serial number:.....

Date of purchase:.....

Retailer:.....

We recommend you retain your purchase receipt to assist in any warranty claim.

Philips Consumer Electronics
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3 year Warranty valid for all new products purchased after 1st July 2002

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2. The guarantee applies only to faults caused by defective components, or faulty workmanship on the part of the manufacturer.
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4. Reasonable evidence (in the form of a sales docket) must be supplied to indicate that the product was purchased no more than 12 months prior to the date of your claim.
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How to claim

Should your Philips product fail within the guarantee period, please return it to the retailer from whom it was purchased. In most cases the retailer will be able to satisfactorily repair or replace the product.

However, should the retailer not be able to conclude the matter satisfactorily, or if you have other difficulties claiming under this guarantee, please contact

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